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PATENT ABSTRACTS OF JAPAN

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(54) AQUEOUS INK FOR INK JET CONTAINING ALKYLENE OXIDE CONDENSATE OF CERTAIN NITROGEN HETEROCYCLIC COMPOUND AS COSOLVENT

(57)Abstract:

PURPOSE: To obtain an ink compsn. imparting an image excellent in water resistance, light resistance and hue and excellent in decap capacity by compounding an aq. carrier medium, a specific colorant and a specific N- heterocyclic diol.

CONSTITUTION: The objective ink compsn. is constituted of an aq. carrier medium (e.g.; water and diethylene glycol), a colorant selected from a pigment dispersion and a dye (e.g.; a pigment dispersion consisting of carbon black pigment and a dispersant of a block copolymer consisting of a 2-ethylhexyl methacrylate polymer block and a 2-ethylhexyl methacrylate/methyl methacrylate copolymer block and an N-heterocyclic diol being a reaction product of 5- or 6-membered monocyclic heterocyclic compd. containing divalent and trivalent N-atoms and one C-atom separating these N-atoms and characterized by that this C-atom is a part of one CO group and ethylene oxide and/or propylene oxide and having a solubility of 4.5 times or more with respect to 100 pts. of water.